# user manual

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SEOWON INTECH

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# Introduction to the Product

Thank you for choosing our Indoor VoIP CPE, SWC-5x00W series. The VoIP CPE allows you to share a superior data communication by Ethernet and WiFi network, and to make Voice over Internet Protocol calls. The VoIP CPE comes with easy installation, reliable network connection, advanced security & authentication and mores.

Please read this User Guide carefully to learn about SWC-5x00W series. It will help your various communication needs properly served at home and offices.

## Functional Features

| Function | Features |
|---|---|
| IEEE802.16e WiMAX Support | Wave2 = DL : 30Mbps / UL : 6Mbps |
| IEEE802.3u Ethernet Support | 10/100Mbps wired LAN connectable |
| VoIP Support | 1 x RJ-11 for Analog Telephone Service |
| LAN Port | 2 x Ports 10/100Mbps Ethernet Switch built-in |
| Cable Auto Sense | Straight (Direct) or Cross Cable auto sensing |
| NAT function | Supports up to 253 wired and wireless connections and internet router* |
| Firewall function | Manages basic firewall and IP/Port/based access |

## Front side of CPE

| LED Indicator | Function |
|---|---|
| PWR | Power Supply status (On at Power ON) |
| LAN1 / LAN2 | ON when connected to PC, Flashing at communication |
| PHONE | ON when connected to Telephone, Flashing at communication |
| RSSI | Representation WiMAX received signal strength indication(RSSI), on when the mode was selected router. |

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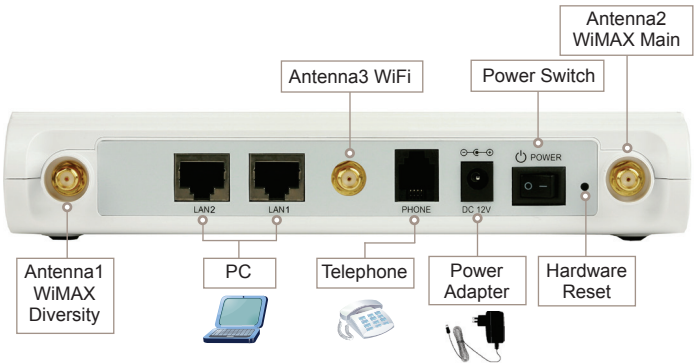
# Rear side of CPE




| Item | Details |
|---|---|
| External Antenna | Antenna1 : WiMAX Diversity<br>Antenna2 : WiMAX Main<br>Antenna3 : WiFi<br>Separable external antenna<br>User external type antenna attachable<br>* Antenna Classification<br>- 2.3G : M23<br>- 2.5G : M25<br>- 3.5G : M35<br>- WiFi : WiFi |
| LAN1 / LAN2 | PC or Hub connection |
| PHONE | Telephone connection |
| DC 12V | Power Adapter connection (DC 12V ⎓ 2.0A) |
| POWER | Power On/Off Switch (Switch between On/Off by pressing right or left) |
| RESET | Restore the VoIP CPE Factory Default |

**NOTE**

If you lost LOGIN password for router or IP address after change, use the Reset switch to restore its original Factory Default settings.

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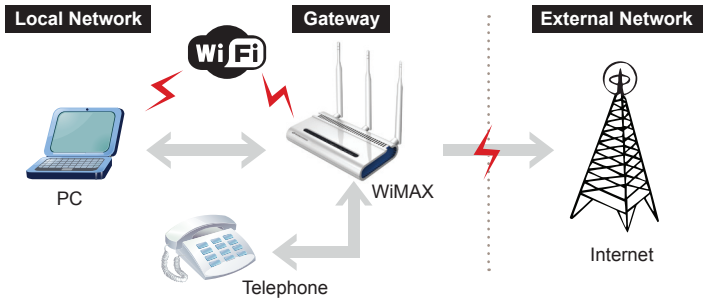
## Network Configuration




To verify the normal operation of the router, check the following LEDs after connecting the router, modem, and PC with a LAN cable, as follows:

| LED | Normal Operation | Actions to take if not illuminated |
|---|---|---|
| PWR | ON when connecting adapter | Check for adapter power failure |
| LAN1 / LAN2 | ON when cable is connected normally | Check for adapter power failure |
| PHONE | On when Phone cable is connected normally | Check cable connection and Telephone |
| WiMAX RSSI | Represents WiMAX received signal strength indication (RSSI), ON when in router mode | Check that router mode is selected |

If one or more LED lights is not in“normal operation”, take the actions specified in the table. Install a router after connecting to the network.
If normal connection between router and PC is checked, you have to set up the PC and router. PC setup is to control network configuration for Windows 98, Windows 2000, or Windows XP to use the Internet while the PC is connected to a router.
Router setup is to connect a router to the Internet. Please refer to the CPE Setup chapter.

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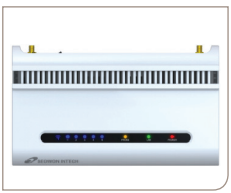
# Package Configuration



Main Unit

Antenna X 3

User Manual

LAN Cable

Tel Line

Adapter

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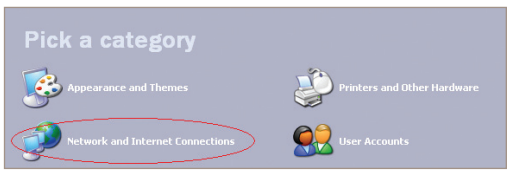
## PC Configuration (Windows XP)

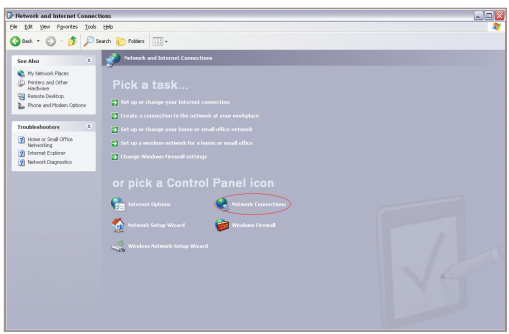
This procedure is used to restore Windows XP's TCP/IP setup to the default values. If Windows has just been installed for the first time on the PC, no changes should be required, but you should check to confirm that all values are normal according to the following.

After completing the TCP/IP setup of the PC, connect PC and CPE with a LAN cable and turn CPE on before Windows starts up to determine whether an IP address is obtained from CPE automatically.

- Click the Windows Start button, and select Settings >> Control Panel from the menu.
- Double-click the "Network Connection" icon in the Control Panel.

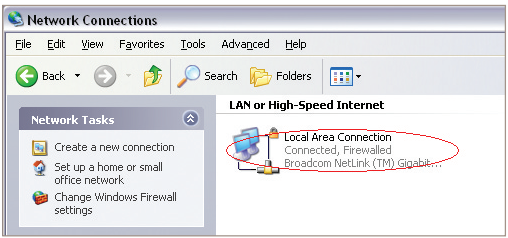



Double-click the Network and Internet Connections



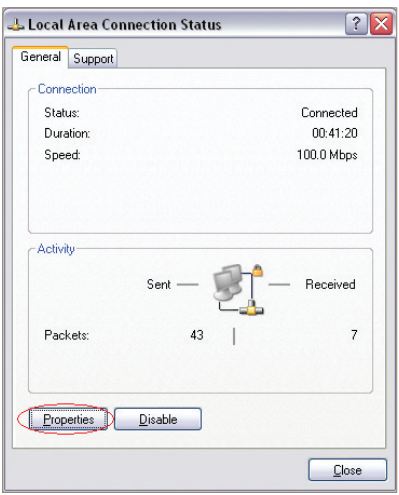

Double-click the Network Connection

- Double-click the Local Area Connection from the Network Connection list to select it.




Double-click the Local Area Connection

- Click “Properties” in the Local Area Connection Status window.




Click Properties

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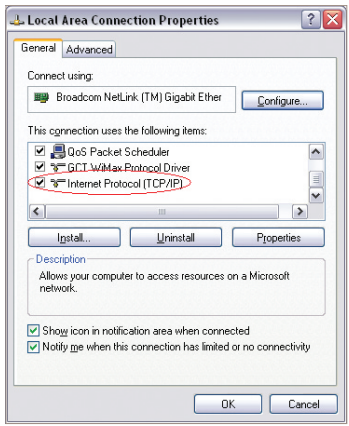
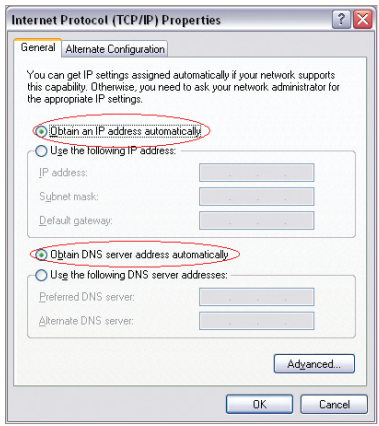
- Double-click Internet Protocol (TCP/IP) to open its Properties window, and then select “Obtain an IP address automatically” and “Obtain a DNS Server address automatically”.




Double-click TCP/IP


Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

Select the‘Obtain an IP address automatically’ ‘Obtain a DNS Server address automatically’ and click OK

- After completing setup, click OK and close all of the Local Area Connection Properties windows.
- When TCP/IP setup is completed, an IP address is automatically assigned by CPE. For automatic assignment, the PC and the CPE should be connected with a LAN cable. If they are not connected with a cable, connect them with a LAN cable and restart the PC.
- You can check the automatic IP address assignment by using the ipconfig command from the Command Prompt.

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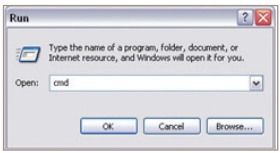
# How to check your IP address

- To run the Command Prompt, click the Start button at the lower left corner of the Windows screen. Click Run, then enter “cmd” in the Open box, and click OK.

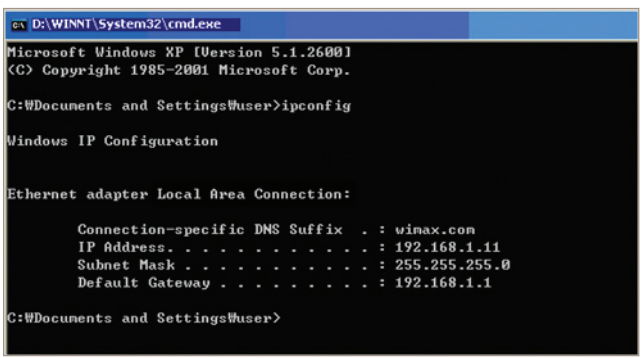



Run cmd

- When the Command Prompt window opens, enter the “ipconfig” command to verify the IP address, Subnet mask, and Gateway, which are automatically assigned to PC.

**NOTE**

All PCs connected to CPE will receive their own assigned IP address.


D:\WINNT\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\user>ipconfig
Windows IP Configuration
Ethernet adapter Local Area Connection:
Connection-specific DNS Suffix . : wimax.com
IP Address. . . . . : 192.168.1.11
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.1.1
C:\Documents and Settings\user>

Verify IP address

**NOTE**

If an IP address is not assigned, check the following, and then restart the PC and check whether an IP address is assigned.

- √ LAN cable connection between PC and CPE
- √ Check TCP/IP setup details

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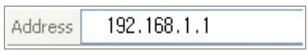
# CPE Built-in Web Server Access

The WEB GUI is used to manage a CPE and view its current status.
You can access the web server that is built into the CPE, even when not connected to the Internet.
To access the web server, open Internet Explorer or your Browser and type “192.168.1.1”, which is the IP address of CPE, in the address bar, as shown below:

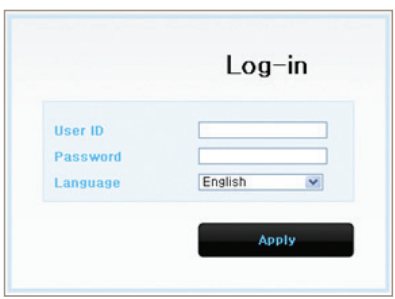



**NOTE**

If the PC is connected to the CPE but is not connected to the Internet, entering the IP address of 192.168.1.1 in the address box will connect the PC to the CPE web server. This function may not operate in some environments.

Upon accessing the CPE, the following Login screen will be displayed.
The default user ID and password are admin, which you can change on the web server.

**ID / Password = admin/admin**




**NOTE**

If you have no input activity for 1 hour, your web connection is terminated. In this Case, please login again through the login page.

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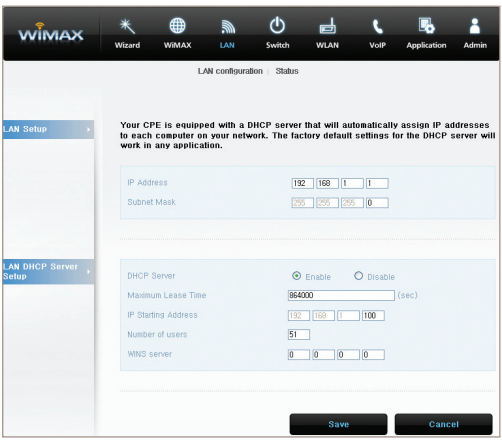
# LAN Setup

## 01 LAN Configuration




- Select “LAN” → “LAN Configuration” from the menu.
- Configure LAN IP address
  - LAN IP address is used in the LAN that the CPE manages.
  - Setup LAN IP address in “IP Address/Subnet Mask” text boxes.
  - Initial Value is “192.168.1.1/255.255.255.0” and only the last byte in “Subnet Mask” box can be modified.
- Configure DHCP server
  - Enable DHCP server to lease IP address to the computer connecting to CPE with wired LAN.
  - Setup Maximum lease time (in seconds), IP Starting address, Number of users and WINS server address.
- Finish setup by clicking the “Save” button. Then, you will be moved to the Rebooting Screen.
- If you have finished CPE setup and want to reboot the CPE, click “Yes” to reboot the CPE.
- Changed configuration is applied after rebooting the system.

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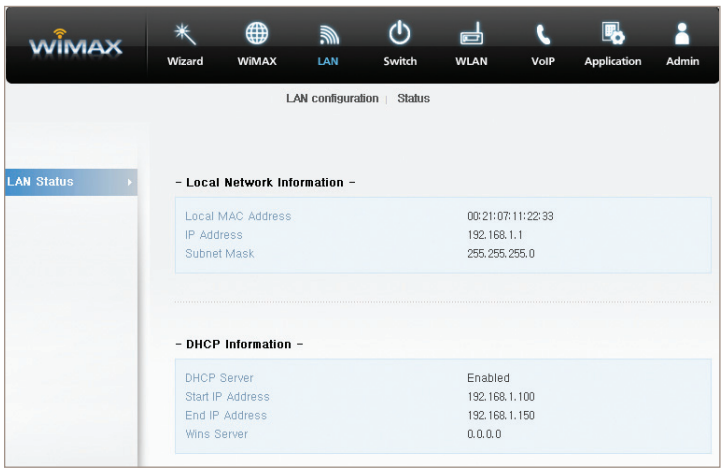
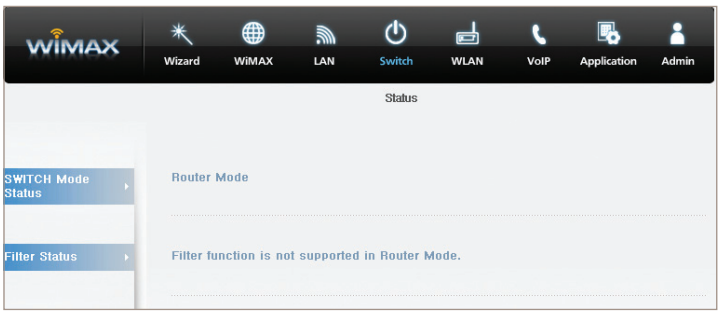
## 02 Status




- Select “LAN” → “Status” from the menu.
- You can see the details of the LAN configuration.

# Switch Setting

## 01 Status




- Select “Switch” → “Status” from the menu.
- You can see the various configurations related to switch configuration, such as Switch mode and several filters.

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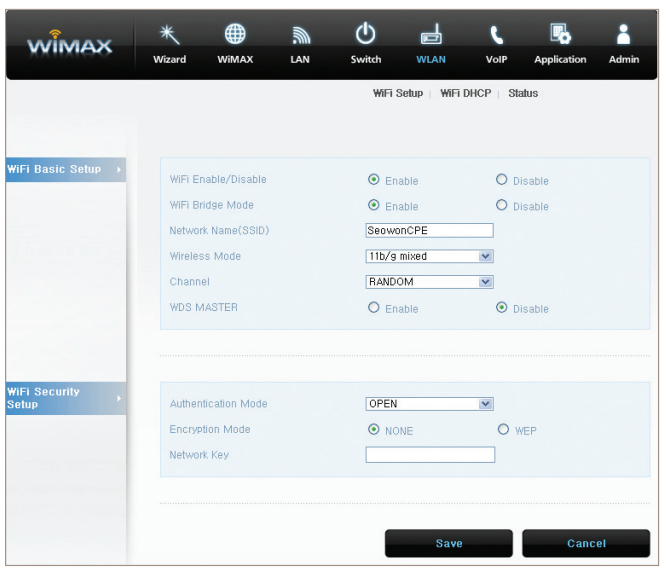
# WLAN(WiFi) Setup

## 01 WiFi Setup

WiFi configuration can be modified when Switch mode is Router (NAT) Mode.
Be careful when you select WiFi Bridge mode.

- When WiFi Bridge mode is enabled.
  Wired LAN and WiFi interfaces are member of a single bridge. Wired LAN and WiFi interfaces have the same MAC address.
- When WiFi Bridge mode is disabled.
  Wired LAN and WiFi interfaces work as independent interfaces from each other. Therefore, the Wired LAN and WiFi interfaces have a different IP address. To lease IP addresses to PC connected with WiFi, the WiFi DHCP server can be configured.

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**NOTE**

The Wired LAN interface's IP address can be changed according to the WiFi Bridge mode. If you can't access SWC-5x00W with WiFi after the modification of WiFi Bridge mode, try to access with "192.168.2.1".

- Select "WLAN" → "WiFi Setup" from the menu.
- Configure WiFi Basic
  - √ Select whether WiFi is enabled or disabled.
  - √ Select whether WiFi Bridge Mode is enabled or disabled.
  - √ Configure SSID of wireless AP.
  - √ Select wireless mode(11b/g mixed, 11B only, 11G only)
- Configure WiFi Security
  - √ Select Authentication Mode(Open, Shared, WPA-PSK, WPA2-PSK)
  - √ Set whether encryption mode using WEP will be used or not.
  - √ Set network key if using WEP encryption.
- Finish setup by clicking "Save". Then, you will be moved to the Rebooting Screen.
- If you have finished CPE setup and want to reboot the CPE, click "Yes" button to reboot the CPE.
- Changed configuration is applied after rebooting the system.

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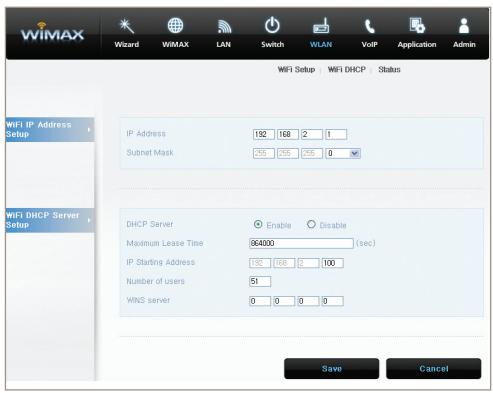
## 02 WiFi DHCP

WiFi DHCP can be configured when WiFi Bridge Mode is disabled.




- Select “WLAN” → “WiFi DHCP” from the menu.
- Configure a WiFi IP Address
  - √WiFi IP address is used in the wireless LAN that CPE manages.
  - √Configure LAN IP address in “IP Address/Subnet Mask” text boxes.
  - √Initial Value is “192.168.2.1/255.255.255.0” and only last byte in “Subnet Mask” box can be modified.
- Configure WiFi DHCP Server
  - √DHCP server should be enabled for the purpose of leasing IP address to the computer connecting to CPE via WiFi.
  - √Setup Maximum lease time (in seconds), IP Starting address, Number of users and WINS server address.
- Finish setup by clicking the “Save” button. Then, you will be moved to the Rebooting Screen.
- If you have finished CPE setup and want to reboot the CPE, click “Yes” button to reboot the CPE.
- Changed configuration is applied after rebooting the system.

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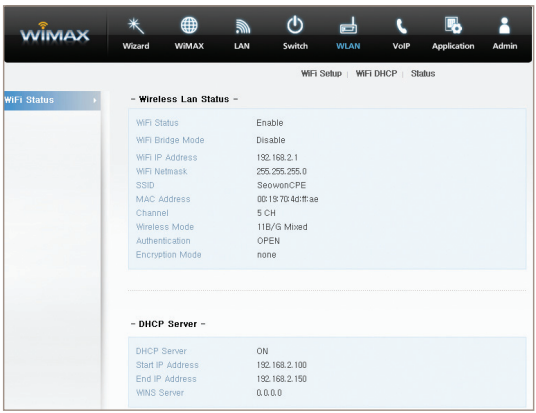
## 03 WiFi Status

- Select “WLAN” → “Status” from the menu.
- You can see a lot of information related to the WiFi configuration.

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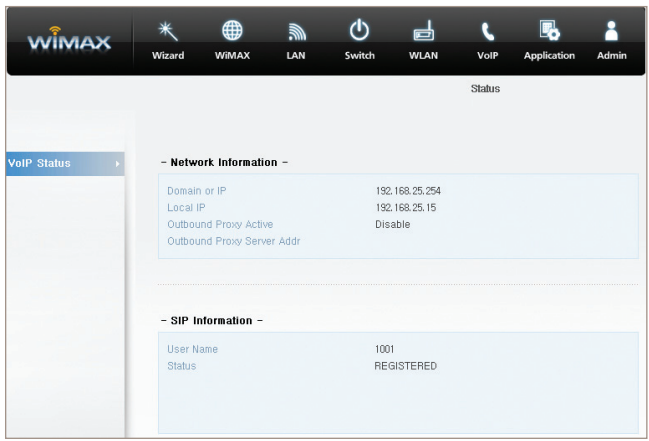
# VoIP Settings

## 01 Status

- Select “VoIP” → “Status” from the menu.
- You can see a lot of information related to the VoIP configuration.

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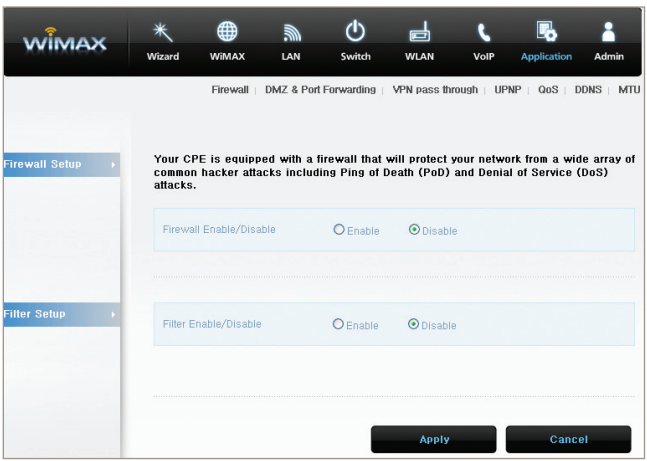
# Application Setup

## 01 Firewall

Firewall enables you to set the CPE so that it is not affected by external hacking attempts, including Ping Flooding or DoS. Internal LAN PCs are usually isolated/protected from external Internet attacks even when a firewall is not used, but it is still preferable to set the firewall to ON as much as possible. By default, the firewall is set to ON.




- Select “Application” → “Firewall” from the menu.
- If you want to use the Firewall function, check the “Enable” checkbox.
- Finish setup by clicking the“Apply”button. Then, you will be moved to the Rebooting Screen.
- Changed configuration is applied immediately.

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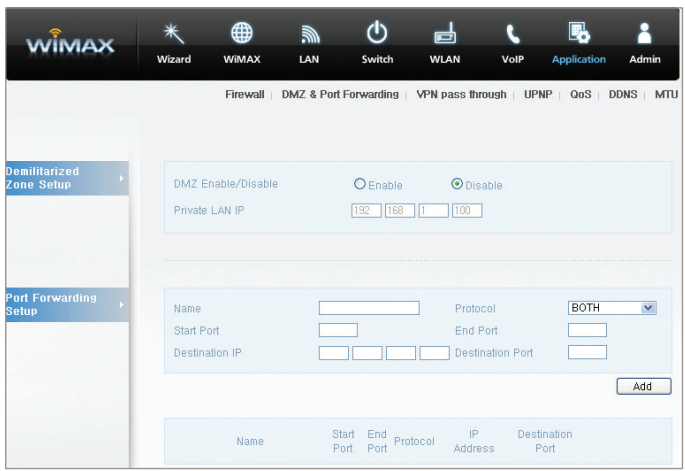
## 02 DMZ & Port Forwarding

The DMZ feature allows you to specify one computer on your network to be placed outside of NAT firewall. This may be necessary if the NAT feature is causing problems with an application such as a game or video conferencing application. Use this feature on a temporary basis, as the computer in the DMZ is not protected from attacks by hackers. Port Forwarding function is used to forward incoming packets of specific TCP/IP port from outside to the assigned PC. This function is useful if you have to use VoIP or P2P applications, or have to operate HTTP or FTP servers from a PC in the internal LAN.



- Select “Application” → “DMZ & Port Forwarding” from the menu.
- Configure DMZ(Demilitarized Zone)
  - ✓ Select whether or not to enable the DMZ function.
  - ✓ Set the IP address to have all ports opened in “Private LAN IP” content.
- Finish setup by clicking the “Apply” button. Then, you will be moved to the Rebooting Screen.
- Configure Port Forwarding
  - ✓ The port forwarding function can be configured when DMZ is disabled.
  - ✓ Enter the information for Port Forwarding.
  - ✓ Enter all information required for Port Forwarding
  - ✓ After entering all the specific PC information to connect, press the “Add” button to see the added Port Forwarding information
  - ✓ Then, you will be moved to the Rebooting Screen.
  - ✓ To modify/delete the existing Port Forwarding, use the “Edit”/”Delete” button.
  - ✓ Changed configuration is applied immediately

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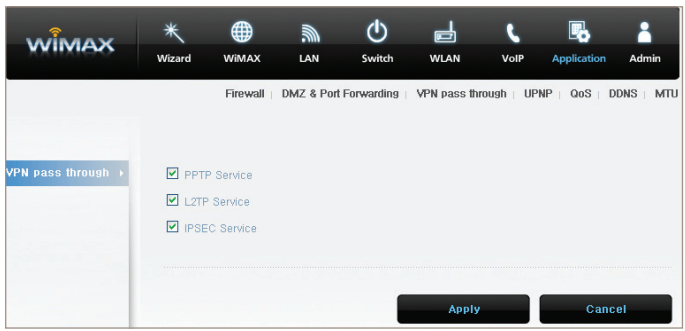
## 03 VPN pass through

The VPN (Virtual Private Network) function is used to obtain access to a security network installed in a company or an organization via the Internet network.
If there is a VPN Server outside, and one has access to the VPN Server via the Internet network by using CPE, this screen shows how to activate the security protocol supported by the appropriate VPN Server.




- Select “Application” → “VPN pass through” from the menu.
- SWC-5x00W supports 3 types of service: PPTP, L2TP and IPSEC.
- Select the type(s) of VPN pass-through to use with the checkboxes.
- Finish setup by clicking the “Apply” button. Then, you will be moved to the Rebooting Screen
- Changed configuration is applied immediately.

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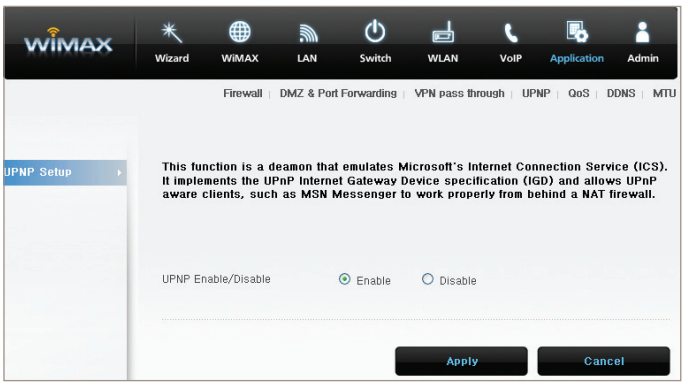
## 04 UPNP

UPnP (Universal Plug and Play) is the standard for automatically detecting each other by using the internet and web protocol when a PC, peripheral devices, intelligent home appliances, or wireless equipment is connected to the network. When a user can add a certain device to the network using UPnP, the device will complete its own organization, receive the TCP/IP address, and discover the HTTP-based discovery protocol to publicize its existence to other devices.


WiMAX
Wizard
WiMAX
LAN
Switch
WLAN
VoIP
Application
Admin
Firewall | DMZ & Port Forwarding | VPN pass through | UPNP | QoS | DDNS | MTU
UPNP Setup
This function is a deamon that emulates Microsoft's Internet Connection Service (ICS). It implements the UPnP Internet Gateway Device specification (IGD) and allows UPnP aware clients, such as MSN Messenger to work properly from behind a NAT firewall.
UPNP Enable/Disable
Enable
Disable
Apply
Cancel

- Select “Application” → “UPNP” from the menu.
- Set the UPNP.
  - ✓ If you want to set the UPNP, check “Enable” in the checkbox.
  - ✓ Finish setup by clicking the “Apply” button. Then, you will be moved to the Rebooting Screen.

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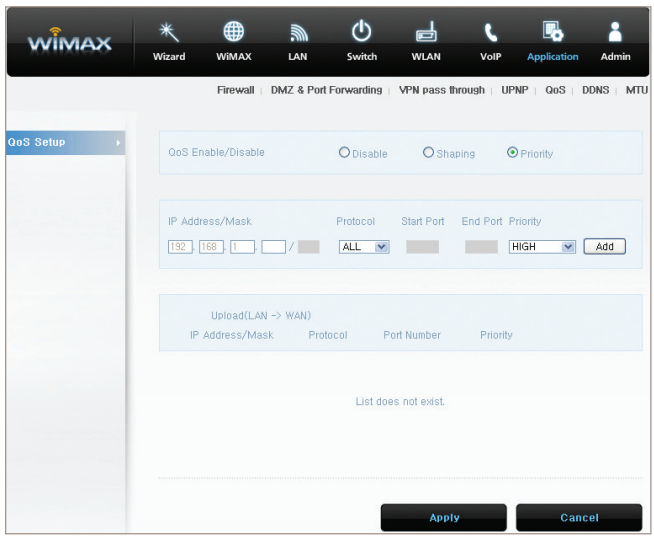
## 05 QoS

QoS (Quality of Service). On the internet or other network, the QoS can measure and improve transmission and error rates. It is a concept of attributes that can be guaranteed to a certain degree. If some high frequency video or multi video information needs to be transmitted consistently, it has a very special meaning. It is very challenging to transmit such types of contents through the public network reliably (only at the best you can do). Using the internet RSVP, the packets passing through the gateway hosts can be quickly processed according to the predefined policy and reservation standards. If a company or a user applies the ATM where the service quality can be selected in advance, the QoS can be measured in various forms such as average delays, delay changes of a cell in the group, cell losses and transmission error rates, and therefore guaranteed by them.

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- Select “Application” → “QoS” from the menu.
- To set the QoS, check“Shaping”or“Priority”.
  The desirable service quality class can be set.
- Set the priority.
  - ✓ Check “Priority” and click “Apply”. The input window will appear.
  - ✓ After entering all the inputs necessary for Priority Setting, press the “Add” button to see the added priority.
- Check the Shaping environment.
  - ✓ By checking “Upload” and “Download” in the checkbox, you can adjust each speed.
  - ✓ After entering all the necessary inputs for shaping, press the “Add” button to see the added shaping.

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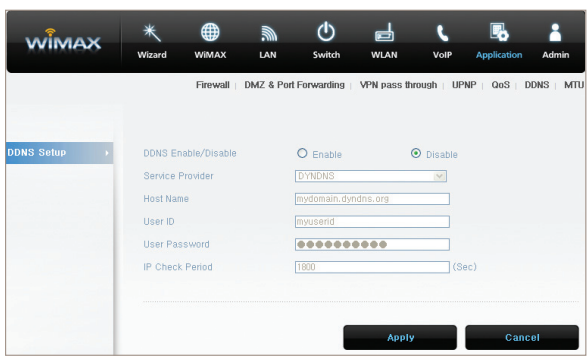
## 06 DDNS

DDNS (Dynamic DNS) is a method for easily maintaining the DNS information of a PC that uses a dynamic IP address. In general, when a user accesses the internet, the internet service provider arbitrarily assigns one of the IP addresses not used at the moment, and this address is exclusively provided for the user while accessing the internet. Using this method, you can support many more computers with the same number of IP addresses compared to the method that assigns a fixed IP address to each PC.
However, if your own domain name and IP address are registered in the DNS, each time you access the internet, a new IP address is assigned. This is very inconvenient. The DDNS service provider uses a special program run on the user's computer in order to automatically update the DNS database when a new IP address is assigned by the internet service provider.
In this way, although the IP address corresponding to a specific domain name is changed frequently, there is no need to know the IP address that other users use to access the computer. As a result, using the same domain name as before, you can easily access the network.




- Select "Application" → "DDNS" from the menu.
- Set the DDNS environment.
  - ✓ If you want to set the DDNS, check "Enable" in the checkbox to enter necessary inputs.
  - ✓ Select the desirable Service Provider, and the input information will be changed.
  - ✓ After entering all the necessary information for DDNS setting, finally, click the "Apply" button to finish setting.

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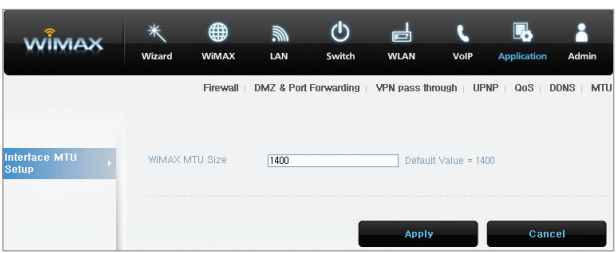
## 07 MTU

The MTU (Maximum Transmission Unit) is the maximum sized packet or frame that can be transmitted in a packet or frame-based network such as TCP/IP. In general, the unit of octet is used. TCP determines each packet size for all types of transmission. If the MTU is too large, retransmission is sometimes required when a router cannot handle the too large packet. On the contrary, if the MTU is to small, the overhead size for header and transmission/receiving check tends to be large. For most computer operating systems, you should follow the recommendations from your internet service providers on whether to change the MTU setting and what value it should be changed to.




- Select “Application” → “MTU” from the menu.
- Set the maximum transmittable packet size.
  - ✓ Enter a value between 500 and 1500.
  - ✓ Finally, click the “Apply” button to finish setting.

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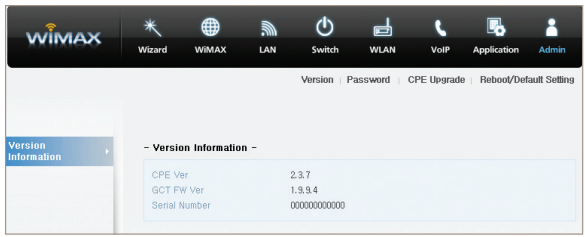
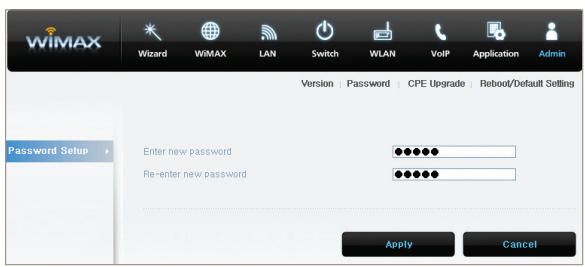
# Admin Setup

## 01 Version




- Select “Admin” → “Version” from the menu.
- You can see the versions of the SWC-5x00W firmware and the WiMAX firmware in use.

## 02 Password




- Select “Admin” → “Password” from the menu.
- Set the Password to be given to the Administrator who manages the CPE.
- Enter the new password, and re-type it to confirm.
- Finish setup by clicking the “Apply” button. Then, you will be moved to the Rebooting Screen.
- Changed configuration is applied immediately.

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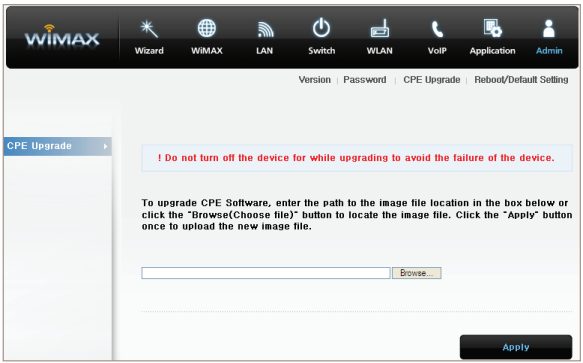
## 03 CPE Upgrade


WiMAX
Wizard
WiMAX
LAN
Switch
WLAN
VoIP
Application
Admin
Version | Password | CPE Upgrade | Reboot/Default Setting
CPE Upgrade
! Do not turn off the device for while upgrading to avoid the failure of the device.
To upgrade CPE Software, enter the path to the image file location in the box below or click the "Browse(Choose file)" button to locate the image file. Click the "Apply" button once to upload the new image file.
Browse...
Apply

- Select “Admin” → “CPE Upgrade” from the menu.
- Input the CPE firmware path directly, or search for the firmware file by clicking the “Browser” button.
- To start the firmware update, click “Apply” button.

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# CPE Setup on the web page

- This will take several minutes, and time will vary according to the environment.
- In some case, a pop-up window asking to rebuild the system will be opened due to a version difference. If this occurs, click “Yes” to rebuild the system.
- CPE is rebooted automatically after the upgrade process is complete.

**Cau-**

To avoid failure of the CPE, do not power off the CPE during the upgrading process.

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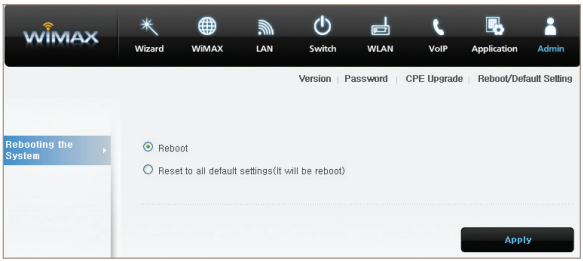
## 04 Reboot/Default Setting




- Select “Admin” → “Reboot/Default Setting” from the menu.
- Select “Reboot” to reboot CPE.
- Select “Reset to all default settings” to reboot CPE and initialize all CPE configuration.
- To reboot the CPE, click “Apply” button.
- CPE is rebooted automatically. It takes about 40 seconds.

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# Trouble Shooting

## Actions to be taken when the Internet is disconnected

### 01 Check the status of external type modem.

- Check that the Link lamps of cable, modem are illuminated.

### 02 Check the LED status of CPE.

- Check that the POWER LED is illuminated.
- Check if the LEDs of WiMAX are illuminated.
- For LAN port, check that the lamp of the port connected to the PC is illuminated.

### 03 Check the IP address of PC.

**For Windows 98/ME**

- Click [Start] >> [Run] and enter the [winipcfg] command to open the [IP Address] window, and then check the [IP Address].

**For Windows 2000/XP**

- Run [Command Prompt] and enter the [ipconfig] command to check the [IP address].

### 04 If IP Address is not normal - Set the IP Address of the PC manually.

**For Windows 98/ME**

- Execute [Run >> Control Panel >> Network], and then click Properties of [TCP/IP] for LAN card.
- Check [Use the assigned IP address], enter [192.168.1.100] for [IP Address] and [255.255.255.0] for [Subnet Mask].
- Select [Gateway] and enter [192.168.1.1] for [New Gateway], and then click [Add].
- Select [DNS Configuration], check [Use DNS], enter any name for [Host], enter [DNS Server Address to search], and click [Add].
- Click [OK], click [OK] again in the [Network Properties] window, and then click [OK] from the [Change System Setup] window to reboot the PC.

**For Windows 2000**

- Execute [Start -> Control Panel -> Network and Dial-UP Connections], double-click [Local Area Connection], and click [Properties].
- Click Properties of [Internet Protocol (TCP/IP)] among Components.
- Click [Use the following IP address].

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- Enter [192.168.1.100] for [IP Address], [255.255.255.0] for [Subnet Mask], and [192.168.1.1] for [Default Gateway].
- Click [Use the following DNS Server Address].
- For [Basic Setup DNS Server], enter the communication company server of each country.
- Click [OK]. Click [OK] again in the [Local Area Connection Properties] window.

### For Windows XP

- [Start -> Control Panel -> Network and Internet Connection], double-click [Local Area Connection], and click [Properties]. Click Properties of [Internet Protocol (TCP/IP)] among Components.
- Click [Use the following IP address].
- Enter [192.168.1.100] for [IP Address], [255.255.255.0] for [Subnet Mask], and [192.168.1.1] for [Default Gateway].
- Click [Use the following DNS Server Address].
- For [Basic Setup DNS Server], enter the communication company server of each country.
- Click [OK]. Click [OK] again in the [Local Area Connection Properties] window.

### For MAC OS X

- From the “Apple” menu, Choose “System Preference..“
- Click on the [Network] icon in the [Internet & Network] category.
- Click on the [Ethernet] option from the left hand side of the Network setting window.
- Select [Manually] option from the [Configure] drop-down menu.
- Enter [192.168.1.100] for [IP Address], [255.255.255.0] for [Subnet Mask], and [192.168.1.1] for [Router].
- For [DNS Server], enter the communication company server of each country.
- Click [Apply].

## 05 Run [MS-DOS] or [Command Prompt] and then perform PING Test with [192.168.1.100]

A message [Reply from 192.168.1.1: bytes=32 time=1ms TTL=64] should appear when running [ping 192.168.1.1] command. If the result of the Ping test does not arrive properly, please contact the Customer Support Center.

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# Operating Information

## Temperature Range for the SWC-5x00W

- Operating temperature for the units is 0 ~ 40 C

## Power Rating AC for the SWC-5x00W

- 110-240V ~ 50/60Hz 0.6A Max

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## Caution

**When minor injury or product damage can occur from violation of the following directions.**

- Do not put any object on the product.
- Avoid heating devices.
- Never disassemble, repair or redeign the product.
- Be careful not to let any alien particle get inside the product.
- Do not leave the Product at a location where static electricity is severe, it can cause malfuction to the product.
- Do not put any metallic object (coin, hair pin) or flammable object inside the product or drop the product.

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# Legal Information

## WEEE Notice

The disposal of this device is subject to the Waste from Electrical and Electronic Equipment(WEEE) Diretive of the European Union.
The Drective aims to promote environmentally-friendly handling of WEEE by ecological disposal or reuse/refurbishment of the collected WEEE.

This symbol on the device signifies that the device ought not to be discarded with mormal household garbage. You are obliged to hand over this device to a certified collection point at the end of its life. Separating. WEEE from other waste helps minimize any of their hazardous effects on environment and human beings. For more information, Please contact a municipal office or the retail stores where you purchased this device.

## EU Regulatory Conformance

Hereby, SEOWON INTECH Co., Ltd. declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

For the declaration of conformity, visit the Web site

**Http://www.seowonintech.co.kr/en/customer/regulatory.asp**

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# Warranty Information

## Quality Warranty

**This product is the result of high-class craftsmanship based on strict quality control procedures.**

- In case of Product failure or malfunction during normal usage, your product will be repaired free of charge within the Limited Warranty period.
- The Consumer shall bear any labor or parts charges not covered by this Limited Warranty.
- At the request for repair, you must provide the proof of purchase and the warranty.
- Keep the warranty in a safe location because it is not reissued.

| | | |
|---|---|---|
| Purcahse date | | |
| Quality warranty period | 1(one) year | |
| Seller | | |
| Telephone number | | |
| Consumer | Name | |
| | Address | |
| | Telephone number | |
| | E-mail | |

**The Consumers shall have no coverage or benefits under this Limited Warranty if the Product has been:**

- Subjected to inappropriate use, improper storage, unauthorized repair, unauthorized modifications, neglect abuse, inadequate installation, misuse, damage caused by shipping, etc.
- Damaged from fire, flooding, windstrom, lighting, earthquake, theft, blown fuse, internet viruses, worms, Trojan Horses, etc.
- Removed of its Product serial # plate.

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## Memo

SEOWON INTECH